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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/926,085	08/27/2001	Takenobu Sunagawa	011080	2186
23850	7590 01/16/2004		EXAM	INER
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			ZALUKAEVA, TATYANA	
1725 K STRE	ET, NW			
SUITE 1000			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006		1713		

DATE MAILED: 01/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·.	Applicati n No.	Applicant(s)				
Office Action Comment	09/926,085	SUNAGAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tatyana Zalukaeva	1713				
The MAILING DATE of this communication Period for Reply	n appears In the cover sheet with the	e c rrespond nce address				
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communicatio - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a reply be n. a reply within the statutory minimum of thirty (30) e eriod will apply and will expire SIX (6) MONTHS fr statute, cause the application to become ABANDO	e timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 2	24 October 2003.					
2a) This action is FINAL . 2b) ⊠	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3,6,9 and 10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3,6,9 and 10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific 						
reference was included in the first sentence						
Attachment(s)	A\ \[\begin{align*}	on (PTO 412) Peros No(a)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-944) Information Disclosure Statement(s) (PTO-1449) Paper No. 	8) 5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

1. Claims 1, 3, 6, 9, and 10 are examined.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

3. Claims 1, 3, 6 stand rejected under 35 U.S.C. 102(b) as being anticipated by Tugukuni et al (U.S. 4,256,805).

Tugukuni discloses a thermoplastic resin composition, comprising one of the ingredients as a copolymer obtained as in Example 8 in col.15, wherein all the components and their relative amounts are within the range of the instant claim 1 were radically polymerized according to any known methods. In the polymerization, as the polymerization initiator, there can be used, for instance, inorganic peroxides such as ammonium persulfate, potassium persulfate, hydrogen peroxide and percarbonates, organic peroxides such as acyl peroxides (e.g., benzoyl peroxide), alkyl hydroperoxides (e.g., tert-butyl hydroperoxide and p-menthane hydroperoxide) and dialkyl peroxides (e.g., di-tert-butyl peroxide), and nitrile compounds such as alpha., alpha.'-azo-bisisobutyronitrile. The amount of the catalyst is not particularly critical in this invention, but in general, the catalyst is used in an amount of 0.01 to 5% by weight of the total monomers. If required, a known chain transfer agent can be used in order to adjust the molecular weight (col. 6, lines 60-68)

Therefore, all the limitations of the instant claims are met by the disclosure of Tagukuni.

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of the instant claims 9 and 10 are met by Harada.

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4. Claim 9 is rejected under 35 U.S.C. 102(e) as being anticipated by Schehlann et al (U.S. 6,132,705).

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Schehlann discloses in col.7, Table 1, line 9 a polymer t/BMA/EHA/HEMA in the ratio 80/10/10 obtained in the presence of 1.5% of EHTG (ethylhexyl thioglycolate) which is a mercaptan having an alkyl ester group of C4-20, and the very same chain transfer agent exemplified in the instant specification.

5. Claims 9 and 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Harada et al (U.S. 6,509,420).

Harada's invention is directed to an epoxy group-containing acrylic resin for a powder coating composition which is a copolymer, having a weight-average molecular weight of 3000 to 20000, of a vinyl monomer mixture comprising 10 to 60% by weight of alkyl ester(s) of (meth)acrylic acid, 10 to 60% by weight of an epoxy group-containing vinyl monomer(s) and other vinyl monomer(s) (col.2, lines 55-64). Examples of the above-mentioned epoxy group-containing vinyl monomer include glycidyl (meth)acrylate, methylglycidyl (meth)acrylate, 3,4-epoxycyclohexylmethyl (meth)acrylate and allyl glycidyl ether (col.4, lines 22-25). T-butylperoxy-2-ethylhexanoate is used as a free radical initiator (col.7, lines 27, 28).

2-ethylhexyl thioglycolate is used as a chain transfer agent. Therefore, all the limitations

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in line 67.

Response to Arguments

6. Applicant's arguments with respect to claims 9 and 10 rejected under Hoebeke have been considered but are moot in view of the new ground(s) of rejection.

7. Applicant's arguments filed on October 24, 2003 with regard to reference to Tugukuni in rejection of claims 1, 3 and 6 have been fully considered but they are not persuasive. The *crux* of Applicants' arguments is that Tagukuni does not teach or suggest the use of t-butyl peroxy group for polymerization of a mixture comprising a methacrylate having an oxygen atom in addition to an ester bond.

In response to this, Applicants attention is drawn to Takuguni patent, col.6, lines 60-68, wherein tert-butyl hydroperoxide is named in line 66 and di-tert-butylperoxide is named

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tatyana Zalukaeva whose telephone number is (703) 308-8819. The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (703) 305-2450. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

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Tatyana Zalukaeva Primary Examiner Art Unit 1713

January 9, 2004